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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,464	10/01/2003	Benjamin Chu	239709US23	5537
	10/674,464 10/01/2003 Benjamin Chu	EXAMINER		
1940 DUKE STREET		TENTONI, LEO B		
			ART UNIT	PAPER NUMBER
		1791		
			NOTIFICATION DATE	DELIVERY MODE
			01/15/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/674,464	CHU ET AL.		
Office Action Summary	Examiner	Art Unit		
	Leo B. Tentoni	1791		
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 17 / 2a) This action is FINAL . 2b) This action is FINAL . 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr			
Disposition of Claims				
4) Claim(s) 1-14 and 18-36 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 and 18-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
9) The specification is objected to by the Examin	ner			
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctable. The oath or declaration is objected to by the E	ccepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 17 November 2008 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the

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examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-14 and 18-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (U.S. Patent Application Publication 2005/0067732 A1) in combination with Gravett et al (U.S. Patent Application Publication 2004/0146546 A1).

Kim et al (see the entire document, in particular, paragraphs [0006], [0017], and [0020]) teaches a process of making nanofibers by electroblowing as claimed, except that Kim et al does not explicitly teach making fibers from hyaluronan polymer, which is taught by Gravett et al (see the entire document, in particular, paragraphs [0021], [0083], [0087], [0098], [0099], [0102], [0103] and [0116]) and such would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Kim et al in view of Gravett et al principally in order to manufacture a desired product (e.g., fibers) from hyaluronan polymer.

Response to Arguments

- 5. Applicant's arguments filed on 17 November 2008 have been fully considered but they are not persuasive.
- 6. Applicant argues (page 8) that Gravett et al does not address the spinning of nanofibers, but instead of normal denier fibers. Examiner responds that Gravett et al does teach nanofibers and is not solely limited to normal denier fibers because Gravett et al teaches that the diameter of the fibers may

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range in size depending on the form of the material, and Gravett et al teaches a sheet (made from fibers) having a thickness as small as about 25 microns, which suggests that the sheet is made from nanofibers (see paragraphs [0102] and [0103] of Gravett et al).

- 7. Applicant argues (page 8) that the examiner has failed to take into account the difficulties inherent with spinning hyaluronan into nanofibers in high throughput. Examiner responds that this argument is not commensurate in scope with the instant claims because none of the instant claims positively recite any amount (or range of amounts) of throughput.
- 8. Applicant argues (pages 8 and 9) that one of ordinary skill in the art would not be motivated to select hyaluronan or hyaluronan containing polymers from the listing in Gravett et al for use in the process of Kim et al. Examiner responds that one of ordinary skill in the art would be motivated to select hyaluronan or hyaluronan containing polymers as taught by Gravett et al (note that Gravett et al teaches that nanofibers of hyaluronan or hyaluronan containing polymers having appropriate dimensions may be made by standard melt-processing techniques, including electrospinning and melt-blowing (see, for example, paragraphs [0102], [0103] and [0116] of Gravett et al)) for use in the process of Kim et al in order to manufacture a desired product (e.g., fibers) from hyaluronan polymer. Furthermore, the claimed subject matter would have been obvious to one of ordinary skill in the art at the time the invention was made because the

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substitution of one known material (i.e., hyaluronan, as taught by Gravett et al) for another known material (i.e., the polymers of Kim et al) would have yielded predictable results (formation of hyaluronan polymer nanofibers) to one of ordinary skill in the art at the time the invention was made (KSR International Co. v. Teleflex Inc., 550 U.S. , 82 USPQ2d 1385 (2007)).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leo B. Tentoni/
Primary Examiner, Art Unit 1791